

WHAT I CLAIM IS:

1. A broadhead hunting arrow comprising in combination:  
a shaft having a longitudinal axis;  
a ferrule secured to the shaft;  
a plurality of blades secured to the ferrule and each blade includes a sharp edge;  
a notch in each blade having a forward side generally perpendicular to the longitudinal axis of the shaft; and  
ring means disposed in the notches and against the forward side of each notch for cutting a bleeder hole in game pierced by the arrow, with the forward side of each notch insuring that the ring means stays with the blades as the arrow is withdrawn from the game.
2. The apparatus of claim 1 in which the plurality of blades comprises three blades spaced apart on the shaft.
3. The apparatus of claim 1 in which the ring means comprises a symmetrical ring.
4. The apparatus of claim 1 in which the ring means comprises an asymmetrical ring.

5. The apparatus of claim 4 in which the notches in the blades are in an offset relationship for receiving the asymmetrical ring.

6. The apparatus of claim 1 in which the notch in each blade is on the sharp edge of each blade.

7. The apparatus of claim 1 in which each blade has a generally triangular configuration including

a straight edge secured to the ferrule,

a sloping side having a sharp edge,

a lower side extending from the sloping side to the straight side,

an open portion bounded by the straight side, the sloping side, and the lower side, and

the notch is on the sloping side communicating with the open area.

8. The apparatus of claim 7 in which the straight side includes a slit through which the ring means extends into the open area and then into the notch.

9. A broadhead hunting arrow comprising in combination:
- a shaft having a longitudinal axis;
  - an arrowhead threadedly secured to the shaft, including a plurality of slots for receiving a plurality of blades;
  - a plurality of blades in the plurality of slots of the arrowhead, and each blade includes a sharp edge and a tapering rear edge;
  - ring means secured to the plurality of blades for cutting a bleeder hole in game pierced by the arrow; and
  - a retainer nut threadedly engaging the arrowhead and having a tapering portion disposed against the tapering rear edge of the blades for locking the blades to the arrowhead.
10. The apparatus of claim 9 in which the ring means includes a ring disposed on the sharp edges of the blades.
11. The apparatus of claim 10 in which each blade of the plurality of blades includes a notch for receiving the ring means.
12. The apparatus of claim 11 in which the ring means includes a ring having a double beveled sharp edge.

13. The apparatus of claim 11 in which the ring means includes a ring having a single beveled sharp edge.

14. The apparatus of claim 11 in which the ring means includes a symmetrical ring having a sharp edge.

15. The apparatus of claim 11 in which the ring means includes an asymmetrical ring having a sharp edge.

16. The apparatus of claim 15 in which the ring means includes a plurality of slots extending from the sharp edge for receiving a portion of the blades adjacent to the notches.

17. The apparatus of claim 15 in which the ring means includes a generally flat bottom, and the plurality of slots extends upwardly from the flat bottom.

18. An arrowhead for a hunting arrow comprising in combination:  
a ferrule for securing the arrowhead to an arrow shaft;  
a plurality of blades integrally secured to the ferrule, and each blade includes a sharp edge; and  
ring means integrally secured to the plurality of blades for cutting a hole in game.

19. The arrowhead of claim 18 in which the ring means has a symmetrical configuration.

20. The arrowhead of claim 18 in which the ring means has an asymmetrical configuration.

21. The arrowhead of claim 18 in which the plurality of blades comprises three blades.

22. The arrowhead of claim 18 in which the plurality of blades comprises four blades.

23. The arrowhead of claim 18 in which the ring means comprises generally straight elements extending between the respective adjacent blades.

24. The arrowhead of claim 18 which further includes an integral juncture of the blades which defines a pointed tip.

25. The arrowhead of claim 18 in which the arrowhead is made by a casting process to provide an integral arrowhead.

26. An arrowhead for a hunting arrow comprising in combination:  
a ferrule;  
a plurality of blades secured to the ferrule;  
a cutting ring secured to the plurality of blades; and  
the ferrule, the plurality of blades, and the cutting ring are monolithic for locking the cutting ring to the blades.

27. The arrowhead of claim 26 in which the blades of the plurality of blades have sharp edges, and the cutting ring has a sharp edge which blends with the sharp edges of the blades.

28. The arrowhead of claim 27 in which the ferrule has a longitudinal axis and the sharp edges of the blades are generally parallel to the longitudinal axis of the ferrule.

29. The arrowhead of claim 28 in which the cutting ring has a sharp edge, and the sharp edge is planarly aligned with the sharp edges of the blades.

30. Arrowhead apparatus for a hunting arrow comprising in combination:

- a ferrule;
- a plurality of slots in the ferrule for receiving blades;
- a plurality of blades disposed in the plurality of slots, and each blade includes
  - a straight side disposed in a slot,
  - a sloping side extending downwardly and outwardly from the straight side and having a sharp cutting edge,
  - a lower side extending from the sloping side to the straight side, the sloping side, the lower side, and the straight side defining a generally triangular configuration, and
  - an open area defined within the straight side, the sloping side, and the lower side;
- a notch on each blade, including
  - a forward portion,
  - a side portion generally perpendicular to the forward portion, and
  - a bottom portion generally parallel to the forward portion; and
- a cutting ring disposed and locked in the notches of each blade.

31. The apparatus of claim 30 in which the notches are exterior notches on the cutting edges of the sloping side.

32. The apparatus of claim 30 in which the notches on the blades are interior notches on the sloping side and communicating with the open area.

33. The apparatus of claim 32 in which the straight sides of the blades include a slit through which the cutting ring passes into the open area in order to be disposed in the interior notches.

34. The apparatus of claim 30 which further includes a tip securable to the ferrule and receiving a portion of each blade for helping to secure the blades to the ferrule.

35. The apparatus of claim 34 which further includes a retainer nut for helping to secure the blades to the ferrule.

36. The apparatus of claim 35 in which the lower side of each blade includes a tapered portion, and the retainer nut includes a tapered bore portion for receiving the tapered portion of the blades for helping to secure the blades to the ferrule.